

WHAT IS CLAIMED IS:

1. A light-emitting device comprising:  
an active matrix substrate over which a light emitting element having a  
5 thin film transistor is formed;  
a desiccant; and  
a protective unit wrapping the active matrix substrate,  
wherein the protective unit is a film at least partially provided with a thin  
film comprising a rare gas element and a carbon.
- 10 2. A light-emitting device according to claim 1, wherein the light  
emitting element has an anode, a cathode, and an EL material interposed  
therebetween.
- 15 3. A light-emitting device according to claim 1, wherein the protective  
unit is brought into contact with the active matrix substrate by vacuum press-fitting.
- 20 4. A light-emitting device according to claim 1, wherein the film is  
covered with a thin film containing carbon.
5. A light-emitting device according to claim 1, wherein the protective  
unit is provided with a thin film that mainly contains carbon inside or outside the  
film.
- 25 6. A light-emitting device according to claim 1, wherein the thin film  
containing carbon is a DLC film.
7. A light-emitting device according to claim 1, wherein the rare gas  
element is one or plural kinds of elements selected from the group consisting of He,  
30 Ne, Ar, Kr, and Xe.

8. A light-emitting device according to claim 1, wherein the desiccant is at least one of barium oxide and calcium oxide.

9. A light-emitting device according to claim 1, wherein the  
5 light-emitting device is at least one selected from the group consisting of an organic light-emitting display device, a digital camera, a personal computer, a mobile computer, an image reproduction apparatus, a goggle type display, a video camera, and a mobile phone.

10 10. A light-emitting device comprising:  
an active matrix substrate over which a light emitting element having a thin film transistor is formed;  
a desiccant; and  
a protective unit wrapping the active matrix substrate,  
15 wherein the protective unit is a film at least partially provided with a silicon oxynitride film containing a rare gas element.

11. A light-emitting device according to claim 10, wherein the desiccant is at least one of barium oxide and calcium oxide.

20 12. A light-emitting device according to claim 10, wherein the light-emitting device is at least one selected from the group consisting of an organic light-emitting display device, a digital camera, a personal computer, a mobile computer, an image reproduction apparatus, a goggle type display, a video camera,  
25 and a mobile phone.

13. A light-emitting device comprising:  
an active matrix substrate over which a light emitting element having a thin film transistor is formed;  
30 a desiccant; and

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a protective unit wrapping the active matrix substrate,  
wherein the protective unit is a film at least partially provided with a  
silicon nitride film containing a rare gas element.

5           14. A light-emitting device according to claim 13, wherein the desiccant  
is at least one of barium oxide and calcium oxide.

15           15. A light-emitting device according to claim 13, wherein the  
light-emitting device is at least one selected from the group consisting of an organic  
10 light-emitting display device, a digital camera, a personal computer, a mobile  
computer, an image reproduction apparatus, a goggle type display, a video camera,  
and a mobile phone.

15           16. A light-emitting device comprising:  
an active matrix substrate over which a light emitting element having a  
thin film transistor is formed;  
a desiccant; and  
a protective unit wrapping the active matrix substrate,  
wherein the protective unit is a film at least partially provided with an  
20  $\text{AlN}_x\text{O}_y$  film containing a rare gas element.

17. A light-emitting device according to claim 16, wherein the desiccant  
is at least one of barium oxide and calcium oxide.

25           18. A light-emitting device according to claim 16, wherein the  
light-emitting device is at least one selected from the group consisting of an organic  
light-emitting display device, a digital camera, a personal computer, a mobile  
computer, an image reproduction apparatus, a goggle type display, a video camera,  
and a mobile phone.

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19. A light-emitting device comprising:

an active matrix substrate over which a light emitting element having a thin film transistor is formed;

a desiccant; and

5 a protective unit wrapping the active matrix substrate,

wherein the protective unit is a film at least partially provided with an AlN film containing a rare gas element.

20. A light-emitting device according to claim 19, wherein the desiccant

10 is at least one of barium oxide and calcium oxide.

21. A light-emitting device according to claim 19, wherein the light-emitting device is at least one selected from the group consisting of an organic light-emitting display device, a digital camera, a personal computer, a mobile

15 computer, an image reproduction apparatus, a goggle type display, a video camera, and a mobile phone.

22. A light-emitting device comprising:

a substrate over which a light emitting element is formed;

20 a desiccant; and

a protective unit wrapping the substrate,

wherein the protective unit is a film at least partially provided with a thin film comprising a rare gas element and an inorganic material.

25 23. A light-emitting device according to claim 22, wherein the rare gas element is one or plural kinds of elements selected from the group consisting of He, Ne, Ar, Kr, and Xe.

24. A light-emitting device according to claim 22, wherein the desiccant

30 is at least one of barium oxide and calcium oxide.

25. A light-emitting device according to claim 22, wherein the light-emitting device is at least one selected from the group consisting of an organic light-emitting display device, a digital camera, a personal computer, a mobile  
5 computer, an image reproduction apparatus, a goggle type display, a video camera, and a mobile phone.

26. A method of manufacturing a light-emitting device comprising the steps of:  
10 forming a light emitting element over a substrate having an insulating surface;  
thinning a thickness of the substrate;  
bonding a flexible printed substrate to an edge of the substrate; and  
sealing in vacuum the light emitting element and a part of the flexible  
15 printed substrate using a film covered with a thin film mainly containing carbon.

27. A method of manufacturing a light-emitting device according to claim 26, further comprising a step of placing a desiccant in contact with the flexible printed substrate before the vacuum sealing step.  
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28. A method of manufacturing a light-emitting device according to claim 26, wherein the vacuum sealing step employs a thermal press-fitting.

29. A method of manufacturing a light-emitting device according to  
25 claim 26, wherein the thin film containing carbon is a DLC film containing a rare gas element.

30. A method of manufacturing a light-emitting device according to claim 26, wherein the rare gas element is one or plural kinds of elements selected  
30 from the group consisting of He, Ne, Ar, Kr, and Xe.

31. A method of manufacturing a light-emitting device according to claim 26, wherein the rare gas element contained in the thin film is in a concentration of 0.1 atomic% or higher.

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32. A method of manufacturing a light-emitting device according to claim 26, wherein the light-emitting device is at least one selected from the group consisting of an organic light-emitting display device, a digital camera, a personal computer, a mobile computer, an image reproduction apparatus, a goggle type display, a video camera, and a mobile phone.

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